

Title (en)
Mercury-free high-pressure discharge lamp and luminaire using the same

Title (de)
Quecksilberfreie Hochdruckentladungslampe und Leuchte

Title (fr)
Lampe à décharge sous haute pression exempte de mercure et luminaire

Publication
EP 1783817 A3 20081231 (EN)

Application
EP 06023123 A 20061107

Priority
JP 2005322748 A 20051107

Abstract (en)
[origin: EP1783817A2] A mercury-free high-pressure discharge lamp includes a light-transmissive airtight envelope enclosing therein a discharge space, and a pair of electrodes sealed inside the light-transmissive airtight envelope and facing the discharge space, and the primary halide includes at least thulium bromide having an innumerable emission spectrum primarily around the peak of a luminosity curve and alkali metal halide, and the accessory halide contains one or more metal halides mostly selected from a group of Magnesium (Mg), Iron (Fe), Cobalt (Co), Chromium (Cr), Zinc (Zn), Nickel (Ni), Manganese (Mn), Aluminum (Al), Antimony (Sb), Bismuth (Bi), Beryllium (Be), Rhenium (Re), Gallium (Ga), Titanium (Ti), Zirconium (Zr), and Hafnium (Hf) which primarily contribute to fix lamp voltage.

IPC 8 full level
H01J 61/12 (2006.01); **H01J 61/82** (2006.01)

CPC (source: EP US)
H01J 61/125 (2013.01 - EP US); **H01J 61/82** (2013.01 - EP US)

Citation (search report)

- [XY] US 2005179391 A1 20050818 - ISHIGAMI TOSHIHIKO [JP], et al
- [DXA] US 6353289 B1 20020305 - ISHIGAMI TOSHIHIKO [JP], et al
- [XA] US 2004056600 A1 20040325 - LAPATOVICH WALTER P [US], et al
- [DY] JP 2004349242 A 20041209 - OSRAM MELCO TOSHIBA LIGHTING KK
- [A] CA 2125253 A1 19941208

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1783817 A2 20070509; EP 1783817 A3 20081231; CN 1963988 A 20070516; US 2007138964 A1 20070621; US 7573203 B2 20090811

DOCDB simple family (application)
EP 06023123 A 20061107; CN 200610152876 A 20061106; US 55727706 A 20061107